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13. The preparation of claim 12, wherein the stem cells will spontaneously differentiate to trophoblast and produce chorionic gonadotropin when cultured to high density.

14. A preparation of pluripotent human embryonic stem cells comprising cells which are negative for the SSEA-1 marker, positive for the SSEA-4 marker, express alkaline phosphatase activity, are pluripotent, and have euploid karyotypes and in which none of the chromosomes are altered.

15. The preparation of claim 14, wherein the cells are positive for the TRA-1-60, and TRA-1-81 markers.

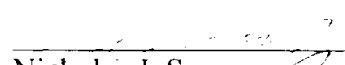
16. The preparation of claim 14, wherein the cells continue to proliferate in an undifferentiated state after continuous culture for at least one year.

17. The preparation of claim 14, wherein the cells will differentiate to trophoblast when cultured beyond confluence and will produce chorionic gonadotropin.

18. The preparation of claim 14, wherein the cells remain euploid for more than one year of continuous culture.

19. The preparation of claim 14, wherein the cells differentiate into cells derived from mesoderm, endoderm and ectoderm germ layers when the cells are injected into a SCID mouse

Respectfully submitted,



Nicholas J. Seay
Reg. No. 27,386
Attorney for Applicant
QUARLES & BRADY LLP
P.O. Box 2113
Madison, WI 53701-2113

TEL (608)251-5000
FAX (608)251-9166

QBMAD\316469